

TETRAPOL TPH700

A rugged robust radio



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- Water-resistant
- Designed to withstand extreme conditions
- Graphic colour display (TFT)
- Intuitive navigation
- Customisable shortcut button for frequent tasks
- High quality hands-free loudspeaker
- Bluetooth® wireless technology connection for accessories and other



Robust and water-resistant

The EADS TPH700 is a TETRAPOL handheld radio designed for secure voice and data communications in extreme conditions. It is ideal for professional radiocommunication users who require a robust and powerful radio for daily use.

The TPH700 is designed for use in adverse conditions and has class IP57 protection, which enables it to withstand not only the inevitable splashes, dust and knocks suffered in everyday operation but also accidental immersion in water up to 1 metre. The radio has a high quality loudspeaker which provides excellent sound quality even in noisy environments.

The TPH700 is made of robust material, and the ruggedness of its mechanical and electrical parts means that its connectors are protected against corrosion, thus ensuring that the radio is extremely reliable whatever the user's location.

Ergonomical and user-friendly

The TPH700, which is part of the latest generation of EADS radios, has a colour display, easy-to-use keypad and functional menus. Thanks to its size the high resolution TFT display provides crisp, clear images and colour graphics. Even in variable light conditions, the information is clearly visible on the display.

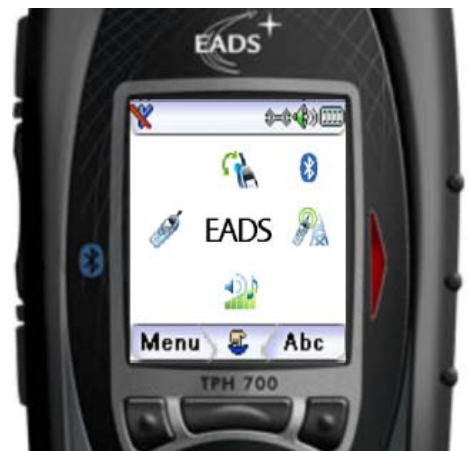
Customisable

The TPH700 can adapt to the needs of individual users. It has a convenient shortcut button that can be programmed for the most frequently-used functions. Users no longer need to go to the main menu to send or read messages or send their GPS position, for instance – they simply click the shortcut button.

In addition the user interface can be customised to display an organisation's name or a splash screen.

Mobility in perfect security

Thanks to its Bluetooth® facility the TPH700 can receive one audio connection and two data connections simultaneously. It also boasts a wide range of connectivity options: external audio or data accessories and devices via Bluetooth® such as earpieces, headsets, hands-free vehicle kits, GPS, PDA and PC for easy and efficient communication.



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Accessories

The following accessories can be used with the TPH700 radio:

Pedestrian:

- Pedestrian kit (GSM type): earpiece, microphone and PTT
- Speaker microphone with or without jack plug
- EADS Bluetooth® earpiece with PTT
- COTS Bluetooth® earpiece
- Bluetooth® GPS
- VIP escort kit
- Walkman kit
- Neck loop induction kit

Vehicle:

- Support equipment (power supply, external antenna and TPH700 connector offset)
- 10W radio booster
- COTS Bluetooth® vehicle audio kit

Data:

- USB port data cable
- COTS Bluetooth® connection for PC or PDA
- RS232 cable
- TPS cables
- REMS cables

Chargers:

- Single-position desktop charger (1 TPH700 + 1 additional battery)
- 6-position charger (6 TPH700s + 6 additional batteries)
- Travel charger (wall or cigarette-lighter socket)

TETRAPOL TPH700 Radio

The TPH700 complies with the following standards which apply to radio equipment in the temperature range -20°C to 60°C:

- ETSI radio standards EN 300 113-1 & -2
- ETSI radio standards EN 300 328-1 & -2 applicable to *Bluetooth*[®]
- ETSI EMC standards EN 301 489-5 & -1
- ETSI EMC standard EN 301 489-17 applicable to *Bluetooth*[®]
- Standard relating to electrical safety EN 60950-1: 2001
- Exposure to RF fields: radio complies with the limits for exposure of workers defined in directive 2004/40/EC (10W/kg). Evaluation of exposure carried out according to methods EN50361, IEC 62209-1 and IEC 62209-2
- CE marking in accordance with directive R&TTE 1999/5/EC
- RoHS equipment in accordance with European directive 2002/95/EC

Frequency bands

- 380-430 MHz with 10 or 12.5 kHz spacing
- 440-490 MHz with 10 or 12.5 kHz spacing
- Half-channel offset possible
- Other frequency bands available on request

RF specifications

- Maximum power at transmitter output: 2 W
- Static / dynamic sensitivity better than – 119 dBm / –111 dBm

Specifications

- Weight: 300 g with battery
- Dimensions: 151 x 61 x 40 mm

Environmental specifications

- Water and dust in accordance with classification IP57
- Knocks, dropping (2m) and vibration in accordance with ETS EN 300019-1-7 class 5M2
- Humidity in accordance with ETS EN 300019-1-7 class 7.3, up to 95%

Display

- High resolution graphic TFT display: 128 x 128 160 pixels •

Keypad / controls

- Alphanumeric keypad
- Navigator
- Shortcut button
- 2 selection keys
- Power-up button, volume control button, PTT button, red key for emergency calls
- Rotary button for volume control and/or channel selection

Call types

- Individual calls
- Multi-party calls
- PBX/PSTN calls
- Call forwarding
- Call transfer
- Calling party ID

Group communications

- Up to 20 groups
- Normal mode and trunked mode
- Open channels, talkgroups
- Broadcast call
- Emergency call
- Group merging
- Scanning, late entry
- Calling party ID

Direct mode and IDR mode

- Extended coverage in direct mode 380 – 430 MHz or 440 – 490 MHz
- Emergency call
- Use of IDR
- Calling party ID

Messaging

- Status
- TETRAPOL text messages and data exchange
- Sending of geolocation, depending on network system version, with *Bluetooth*[®]

GPS or via speaker microphone with embedded GPS.

- Geolocated emergency call, depending on network system version, with *Bluetooth*[®] GPS or via speaker microphone with embedded GPS.

Security

- Embedded encryption component (ASIC)
- Mutual authentication
- End-to-end encryption of voice and data
- Key renewal over the air interface
- Remote disabling (stun)
- Encryption (customer option)

Wireless data

- Connection to a PC or PDA with TETRAPOL drivers in Windows CE and XP™
- *Bluetooth*[®] connection (optional)

Other features

- Integrated *Bluetooth*[®]
- 3 simultaneous *Bluetooth*[®] accessories (1 for voice and 2 for data)
- Compatible with all other certified *Bluetooth*[®] accessories (listed products)
- Sending of GPS position on request with *Bluetooth*[®] GPS (depending on system version compatibility)

Battery

Autonomy: up to 13 hrs (60/35/5)
Charge time: 5 hrs 30 minutes

Headquarters: EADS Secure Networks
Société par actions simplifiée with a capital share of 29.309.392 euros - 414 848 986 RCS Versailles
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